DOCUMENT RESUME

ED 441 545 JC 000 390

TITLE	Accountability in Higher Education: The Fourth Annual Systemwide Report.
INSTITUTION	New Jersey State Commission on Higher Education.
PUB DATE	2000-01-00
NOTE	43p.
PUB TYPE	Reports - Descriptive (141)
EDRS PRICE	MF01/PC02 Plus Postage.
DESCRIPTORS	*Accountability; Annual Reports; *Educational Finance; *Enrollment; *Higher Education; *Outcomes of Education; State Colleges; State Universities; Tables (Data)
IDENTIFIERS	*New Jersey

ABSTRACT

This 1999 New Jersey systemwide report updates several key data indicators (systemwide characteristics, student outcomes, fiscal indicators, and extent of student assistance) examined in earlier reports and adds new ones (number of transfer students, credits, and academic performance of transfer students). Previous enrollment trends continued through 1998 at New Jersey higher education institutions. A decline of about 4.5% between 1993 and 1998 in the overall number of credit-seeking students, particularly at community colleges, reflects a marked decrease in part-time enrollment. Preliminary data for 1999 indicate that this decline has leveled off. Full-time enrollment continued to increase in all other sectors. The overall number of degrees and certificates granted increased. Minority student enrollment continues to grow. Tuition and fees in all public sectors account for an increasing share of institutional revenues, and these prices continue to exceed the national average. New Jersey continues to lead the nation in state-funded student assistance. New Jersey's higher education sectors outperformed their national counterparts in several key student outcome measures. The retention rates for the state college and university sector significantly exceed peer institutions across the nation, and the sectorwide 5- and 6-year graduation rates are similar to or higher than national average. The number of students transferring from New Jersey community colleges to four-year institutions increased significantly over the past 10 years. (VWC)

Reproductions supplied by EDRS are the best that can be made
from the original document.

ED 441 545

Accountability in Higher Education:

The Fourth Annual Systemwide Report

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)
☑ This document has been reproduced as received from the person or organization originating it.
☐ Minor changes have been made to improve reproduction quality.
• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

New Jersey Commission on Higher Education

January 2000

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY
J. Savage
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

A0003900

BEST COPY AVAILABLE

NEW JERSEY COMMISSION ON HIGHER EDUCATION

Mr. Alfred J. Cade
Chairman

Mr. Alfred C. Koeppe
Vice Chairman

Dr. Peter F. Burnham

Dr. Nancy S. Cole

Dr. Cecile A. Feldman

Mr. William M. Freeman

Dr. Amy H. Handlin

Mr. John C. Kelly

Dr. William J. King

Mr. Warren E. Smith

Ms. Gloria E. Soto

Ms. Wilma Velazquez, *student member*

Ms. Heidi White, *student member*

Dr. James E. Sulton, Jr.
Executive Director

ACCOUNTABILITY COMMITTEE

Mr. Lawrence R. Codey
Chairman

Dr. Nancy S. Cole

Dr. William J. King

TABLE OF CONTENTS

EXECUTIVE SUMMARY i

I. INTRODUCTION 1

II. UPDATES OF PREVIOUSLY REPORTED INDICATORS 3

SYSTEMWIDE CHARACTERISTICS 4

Students 4

Certificates and Degrees 8

Faculty 8

STUDENT OUTCOMES 10

Graduation Rates 10

Retention Rates 11

Transfer Rates 12

FISCAL INDICATORS 12

Research Funding 12

Tuition and Fees 14

State/Local Government Support for Higher Education 15

Costs and Revenues 15

Student Assistance Programs 19

THE EXTENT OF STUDENT ASSISTANCE 22

The Median Extent of Assistance for Each Sector 23

The Range of Institutions within Each Sector 24

Conclusions 25

III. TRANSFER STUDENTS 27

THE NUMBERS OF TRANSFER STUDENTS 28

CREDITS 30

THE ACADEMIC PERFORMANCE OF TRANSFER STUDENTS 30

CONCLUSION 33

IV. CLOSING 35

APPENDICES 37

ENDNOTES 38

Executive Summary

With the availability of improved data and a growing acceptance of accountability reporting, New Jersey is providing more and better information about its higher education system to state policy makers, students and parents, employers, and taxpayers. The Commission on Higher Education's fourth annual systemwide accountability report builds on past efforts and complements the annual accountability reports prepared by each public college and university. Together with the state's new performance funding initiative, these reports monitor the progress of institutions, sectors, and the higher education system as a whole as they strive to achieve New Jersey's vision for higher education excellence, access, and affordability.

This year's systemwide report updates several key data indicators examined in earlier reports and adds new ones. It also intensifies the focus on student outcomes, providing detailed information about transfer students.

Key findings in the 1999 systemwide accountability report:

- Previous enrollment trends continued through 1998 at New Jersey higher education institutions. A decline of about 4.5% between 1993 and 1998 in the overall number of credit-seeking students reflects a marked decrease in part-time enrollment. The decrease was primarily at the community colleges, a trend generally attributed to the booming economy. Preliminary data for 1999 indicate that this decline has leveled off. Full-time enrollment continued to increase in all other sectors. The overall number of degrees and certificates granted increased, fueled by gains in the state colleges/universities, community colleges, and the proprietary institutions.
- Minority student enrollment, particularly among Hispanic and Asian students, continues to grow. Although the majority of students enrolled statewide are white, in all but the theological institutions white students account for a smaller proportion of enrollment in 1998 than in 1993.
- Tuition and fees in all public sectors account for an increasing share of institutional revenues, and these prices continue to exceed national averages. The percentage of revenue derived from state government declined for all sectors except the community colleges between FY 1995 and FY 1997. New Jersey community colleges will buck the trends to an even greater degree in the future owing to a substantial increase in state funding over four years beginning in FY 1999 coupled with tuition freezes or minimal increases.
- New Jersey continues to lead the nation in state-funded student assistance. The state ranks first in the percentage of undergraduates receiving need-based aid, second in need-based dollars per student, and sixth in percentage of total state higher education funding devoted to student financial aid.
- New Jersey's higher education sectors outperformed their national counterparts in several key student outcome measures. Most notably,

graduation and retention rates at Rutgers, The State University of New Jersey far exceed national benchmarks. The retention rates for the state college and university sector significantly exceed peer institutions across the nation, and the sectorwide five- and six-year graduation rates are similar to or higher than national averages.

- The number of students transferring from New Jersey community colleges to four-year institutions increased significantly over the past 10 years. While this first examination of transfer student performance at receiving institutions shows primarily positive results, more emphasis on transfer articulation is needed to stem the loss of credits by students moving from two-year to four-year institutions.

The Commission continues its commitment to enhancing higher education accountability in New Jersey through the framework of institutional and systemwide reports and the state's performance funding initiative. In the coming months, the Commission will work with the higher education community to improve the form and content of institutional accountability reports. The Commission also will undertake annual reviews of the state's performance funding indicators so that they continue to spur improved performance and attention to statewide goals for higher education.

I. Introduction

In the decade of the 1990s higher education conscientiously addressed the public expectation for an effective framework to ensure quality and accountability. Accountability indicators are now used across the nation, with most states seeking to document productivity through various measures of effectiveness at colleges and universities.

New Jersey's heightened attention to accountability began in 1994 with the Higher Education Restructuring Act's requirement for annual institutional reports to inform state policy makers and the public about the condition of each public college and university. In addition to the institutional reports, the Commission on Higher Education prepares an annual report to provide aggregate data and information about the various sectors, as well as the system as a whole.

This fourth annual systemwide accountability report builds upon previous efforts, updating basic characteristics of students and faculty, tracking and analyzing outcomes, and reporting on costs, revenues, state support, and tuition. As in past years, the report includes data on New Jersey's higher education system and primarily each of its four major sectors: public research universities, state colleges and universities, community colleges, and four-year independent colleges and universities. The three public research institutions are treated separately in some instances where their differing missions render aggregate data meaningless. Further, although the 14 independent institutions with a public mission are considered an integral part of the state's higher education system, data limitations make it impossible to include the independent sector in some sections of the report.

The report examines New Jersey higher education, as well as the circumstances in which it exists, in relation to peer institutions, the region, and the nation. In doing so, it highlights progress, as well as areas that need additional attention. This year's report intensifies the focus on students, providing new information about financial assistance and a look at data on the extent and impact of the transfer of students from New Jersey's community colleges to the state's senior institutions.

In most enterprises, accountability and improved performance are closely linked, and higher education should be no exception. Today's knowledge-based, global economy and society hold extremely high expectations for colleges and universities and their graduates. The challenges at hand demand open communication, the broad involvement of stakeholders, pertinent information about performance, and a commitment to improvement.

Beginning with the 1999-2000 academic year, New Jersey's institutional and systemwide accountability reports complement a new performance funding initiative that rewards public institutions for achieving benchmarks or improving performance in four key areas identified by Governor Christine Todd Whitman: graduation, transfer and articulation, efficiency and effectiveness, and diversified revenues. This performance funding initiative enhances New Jersey's higher education accountability framework and demonstrates the state's commitment to quality.

II. Updates of Previously Reported Indicators

Section II presents a broad overview of the New Jersey higher education system. In order to clarify the various "sectors," all New Jersey colleges and universities are listed and classified below:

New Jersey Colleges and Universities by Sector

Public Research Universities (3)
- Rutgers, The State University of NJ
- New Jersey Institute of Technology
- University of Medicine and Dentistry of NJ

State Colleges and Universities (9)
- The College of New Jersey
- Kean University
- Montclair State University
- New Jersey City University
- Ramapo College of New Jersey
- The Richard Stockton College of NJ
- Rowan University
- Thomas Edison State College
- The William Paterson University of NJ

Community Colleges (19)
- Atlantic Cape Community College
- Bergen Community College
- Brookdale Community College
- Burlington County College
- Camden County College
- Cumberland County College
- Essex County College
- Gloucester County College
- Hudson County Community College
- Mercer County Community College
- Middlesex County College
- County College of Morris
- Ocean County College
- Passaic County Community College
- Raritan Valley Community College
- Salem Community College
- Sussex County Community College
- Union County College
- Warren County Community College

Public-Mission Independent Doctoral Institutions (5) *
- Drew University
- Fairleigh Dickinson University
- Princeton University
- Seton Hall University
- Stevens Institute of Technology

Public-Mission Independent Nondoctoral Institutions (9) *
- Bloomfield College
- Caldwell College
- Centenary College
- College of Saint Elizabeth
- Felician College
- Georgian Court College
- Monmouth University
- Rider University
- Saint Peter's College

Proprietary Institutions (3) **
- Berkeley College
- DeVry Institute
- Gibbs College

Theological Institutions (8) ***
- Assumption College for Sisters
- Beth Medrash Govoha
- New Brunswick Theological Seminary
- Philadelphia College of Bible
- Princeton Theological Seminary
- Rabbi Jacob Joseph School
- Rabbinical College of America
- Talmudical Academy

* **Private not-for-profit.**
** **Private for-profit.**
*** **Primary purpose of religious education and/or training.**

A. SYSTEMWIDE CHARACTERISTICS

1. Students

Between 1993 and 1998, there was enrollment growth at the proprietary institutions and, to a lesser extent, the public research universities and theological institutions. Overall, however, the number of enrolled students at New Jersey colleges and universities decreased by 15,500 students—a decline of about 4.5% (Table 1). The overall decline occurred primarily at the undergraduate level, particularly at the community colleges. (Table 1, and all other enrollment data presented in this section, are based on headcounts. Also, this report includes only students taking courses for college credit; it omits the many noncredit students, most of whom are enrolled at community colleges, where in some cases they outnumber credit students.)

Table 1:
Headcount Enrollment, by Level, Sector, and Systemwide

Sector	# of Undergraduate Students		# of Postbaccalaureate Students		Total Number of Students	
	1993	1998	1993	1998	1993	1998
Public research universities	40,574	42,637	18,958	18,669	59,532	61,306
State colleges/ universities	67,318	66,707	11,541	10,965	78,859	77,672
Community colleges	139,915	121,114	0	0	139,915	121,114
Public-mission independent institutions	40,281	39,377	17,070	16,544	57,351	55,921
Proprietary institutions	2,775	6,257	0	0	2,775	6,257
Theological institutions	655	1,298	2,270	2,304	2,925	3,602
TOTAL	**291,518**	**277,390**	**49,839**	**48,482**	**341,357**	**325,872**

SOURCE: NCES, IPEDS, Fall Enrollment Survey, 1993 and 1998.

Part-time students account almost entirely for the overall undergraduate enrollment decline. Systemwide, the number of full-time undergraduates actually increased by about 10,000 between 1993 and 1998; almost every sector participated in this increase (Table 2). During this time the full-time percentage of students increased in all four major sectors. While the growing state economy explains much of the decline in part-time students, the demographic phenomenon known as the "baby boom echo" is causing an increase in full-time students, and will continue to do so in all or most sectors for at least another 10 years. Preliminary enrollment data for fall 1999 suggest that the part-time enrollment decline at the community colleges has bottomed out, and that full-time enrollment has increased to an all-time high. There are other factors that are likely to

BEST COPY AVAILABLE

increase enrollment in general; of particular importance is the increasing need for lifelong education in our high-technology, information-driven economy, as epitomized by New Jersey.

Table 2:
Undergraduate Headcount Enrollment, by Full-/Part-Time Status, by Sector and Systemwide

Sector	# of Full-Time Students		# of Part-Time Students		% Full-Time	
	1993	1998	1993	1998	1993	1998
Public research universities	31,595	34,578	8,979	8,059	77.9%	81.1%
State colleges/universities	40,246	42,843	27,072	23,864	59.8%	64.2%
Community colleges	54,923	53,643	84,992	67,471	39.3%	44.3%
Public-mission independent institutions	27,122	29,412	13,159	9,965	67.3%	74.7%
Proprietary institutions	2,060	4,542	715	1,715	74.2%	72.6%
Theological institutions	636	1,221	19	77	97.1%	94.1%
TOTAL	**156,582**	**166,239**	**134,936**	**111,151**	**53.7%**	**59.9%**

SOURCE: NCES, IPEDS, Fall Enrollment Survey, 1993 and 1998.

The community college sector still has the largest share of undergraduates, though that proportion did fall slightly between 1993 and 1998 (Table 3). The second largest share is accounted for by the state colleges and universities. The public research universities and public-mission independent institutions have the largest shares of graduate students. With regard to shares of full-time faculty, the four major sectors are within seven percentage points of each other.

Table 3:
Sector Distributions of Students and Faculty

Sector	% of Undergraduate Students		% of Postbaccalaureate Students		% of Full-Time Faculty	
	1993	1998	1993	1998	1993	1998
Public research universities	13.9%	15.4%	38.0%	38.5%	26.3%	27.4%
State colleges/universities	23.1%	24.0%	23.2%	22.6%	23.9%	24.8%
Community colleges	48.0%	43.7%	0.0%	0.0%	22.0%	20.5%
Public-mission independent institutions	13.8%	14.2%	34.3%	34.1%	26.4%	25.5%
Proprietary institutions	1.0%	2.3%	0.0%	0.0%	0.8%	1.2%
Theological institutions	0.2%	0.5%	4.6%	4.8%	0.5%	0.7%
TOTAL	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

SOURCES: NCES, IPEDS, Fall Enrollment Survey, 1993 and 1998. NCES, IPEDS, Salaries, Tenure and Fringe Benefits of Full-Time Instructional Faculty Survey, 1993-94 and 1998-99.

BEST COPY AVAILABLE

Systemwide, over 90% of the undergraduates attending college in New Jersey are state residents (Table 4). Notably, at the public-mission independent institutions over 75% of the students are from New Jersey, demonstrating the extent to which these institutions serve state residents.

Table 4:
Undergraduate Headcount Enrollment, by State Residence, by Sector and Systemwide

Sector	# of In-State Students		# of Out-of-State Students		% In-State	
	1993	1998	1993	1998	1993	1998
Public research universities	37,630	38,757	2,944	3,880	92.7%	90.9%
State colleges/universities	61,856	61,494	5,462	5,213	91.9%	92.2%
Community colleges	138,364	119,350	1,551	1,764	98.9%	98.5%
Public-mission independent institutions	31,268	30,128	9,013	9,249	77.6%	76.5%
Proprietary institutions	2,679	5,609	96	648	96.5%	89.6%
Theological institutions	275	348	380	950	42.0%	26.8%
TOTAL	**272,072**	**255,686**	**19,446**	**21,704**	**93.3%**	**92.2%**

SOURCE: NJ IPEDS Form #23, Fall Enrollment Survey, 1993 and 1998.

From 1993 to 1998, African American, Hispanic, and Asian American students increased their share of total undergraduate enrollment (Table 5). State colleges/universities, community colleges, and proprietary institutions increased the shares of all three groups among their students. Public research universities and public-mission independent institutions increased the shares of Hispanics and Asians, but not of African Americans. In most sectors the share of "race unknown" grew, possibly indicating an increase in mixed-race students.

BEST COPY AVAILABLE

Table 5:
Undergraduate Headcount Enrollment, by Race/Ethnicity, by Sector and Systemwide

Sector		White		African American		Hispanic		Asian American		American Indian		Nonresident Alien		Unknown		Total	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Public research universities	1993	24,610	60.7%	4,587	11.3%	3,691	9.1%	5,295	13.1%	112	0.3%	944	2.3%	1,335	3.3%	40,574	100.0%
	1998	21,880	51.3%	4,760	11.2%	4,120	9.7%	7,149	16.8%	117	0.3%	1,082	2.5%	3,529	8.3%	42,637	100.0%
State colleges/ universities	1993	49,248	73.2%	6,827	10.1%	5,892	8.8%	2,066	3.1%	179	0.3%	1,517	2.3%	1,589	2.4%	67,318	100.0%
	1998	45,466	68.2%	7,147	10.7%	7,421	11.1%	2,912	4.4%	219	0.3%	1,639	2.5%	1,903	2.9%	66,707	100.0%
Community colleges	1993	93,031	66.5%	17,162	12.3%	10,917	7.8%	5,256	3.8%	413	0.3%	5,080	3.6%	8,056	5.8%	139,915	100.0%
	1998	70,581	58.3%	16,053	13.3%	14,277	11.8%	6,327	5.2%	320	0.3%	3,460	2.9%	10,096	8.3%	121,114	100.0%
Public-mission independent institutions	1993	27,046	67.1%	4,471	11.1%	2,791	6.9%	1,987	4.9%	121	0.3%	1,252	3.1%	2,613	6.5%	40,281	100.0%
	1998	24,287	61.7%	4,211	10.7%	3,420	8.7%	2,377	6.0%	118	0.3%	1,197	3.0%	3,767	9.6%	39,377	100.0%
Proprietary institutions	1993	1,663	59.9%	547	19.7%	460	16.6%	65	2.3%	6	0.2%	7	0.3%	27	1.0%	2,775	100.0%
	1998	2,932	46.9%	1,559	24.9%	1,259	20.1%	310	5.0%	40	0.6%	26	0.4%	131	2.1%	6,257	100.0%
Theological institutions	1993	542	82.7%	0	0.0%	7	1.1%	12	1.8%	0	0.0%	94	14.4%	0	0.0%	655	100.0%
	1998	1,145	88.2%	28	2.2%	3	0.2%	20	1.5%	0	0.0%	102	7.9%	0	0.0%	1,298	100.0%
TOTAL	**1993**	**196,140**	**67.3%**	**33,594**	**11.5%**	**23,758**	**8.1%**	**14,681**	**5.0%**	**831**	**0.3%**	**8,894**	**3.1%**	**13,620**	**4.7%**	**291,518**	**100.0%**
	1998	**166,291**	**59.9%**	**33,758**	**12.2%**	**30,500**	**11.0%**	**19,095**	**6.9%**	**814**	**0.3%**	**7,506**	**2.7%**	**19,426**	**7.0%**	**277,390**	**100.0%**

SOURCE: NCES, IPEDS, Fall Enrollment Survey, 1993 and 1998.

BEST COPY AVAILABLE

2. Certificates and Degrees

New Jersey institutions awarded 51,500 degrees and certificates in FY 1998, a 3.8% gain over FY 1993 (Table 6). The growth occurred in master's degrees, associate degrees, and certificates. The gains at the master's level occurred in all sectors with institutions licensed to confer these degrees. The gains at the associate-degree and certificate levels were particularly dramatic at the proprietary institutions. It should be noted that the data on public-mission independent institutions may be affected by the closing of Upsala College in May 1995.

Table 6:
Certificates and Degrees Conferred, by Level, Sector, and Systemwide

Sector		Certificate	Associate	Bachelor's	Master's	Doctoral	1st Profess.	Total
Public research universities	1993	224	54	7,648	2,960	552	964	12,402
	1998	123	113	7,665	3,151	544	964	12,560
State colleges/ universities	1993	6	276	10,527	1,968	--	--	12,777
	1998	2	177	10,896	2,111	--	--	13,186
Community colleges	1993	656	11,166	--	--	--	--	11,822
	1998	658	11,521	--	--	--	--	12,179
Public-mission indep. institutions	1993	37	362	6,943	3,162	397	411	11,312
	1998	47	266	6,615	3,438	383	446	11,195
Proprietary institutions	1993	171	460	--	--	--	--	631
	1998	673	1,062	--	--	--	--	1,735
Theological institutions	1993	1	4	160	86	16	377	644
	1998	--	20	82	254	32	222	610
TOTAL	**1993**	**1,095**	**12,322**	**25,278**	**8,176**	**965**	**1,752**	**49,588**
	1998	**1,503**	**13,159**	**25,258**	**8,954**	**959**	**1,632**	**51,465**

SOURCE: NCES, IPEDS, Completions Survey, 1992-93 and 1997-98.

3. Faculty

While African American, Hispanic, and Asian American representation among the faculty systemwide increased over the five years, the gains were extremely small—less than one percentage point in all three instances (Table 7). Overall, while the state colleges and universities appear to have made the most progress (by modest margins) between 1993 and 1998, there is a great deal of room for further improvement in all sectors.

BEST COPY AVAILABLE

Table 7:
Race/Ethnicity of Full-Time Faculty,
by Sector and Systemwide

Sector		White		African American		Hispanic		Asian American		American Indian		Nonresident Alien		Unknown		Total	
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Public research universities	1993	3,323	80.6%	196	4.8%	78	1.9%	361	8.8%	4	0.1%	160	3.9%	0	0.0%	4,122	100.0%
	1998	3,280	77.5%	193	4.6%	91	2.1%	386	9.1%	8	0.2%	275	6.5%	0	0.0%	4,233	100.0%
State colleges/ universities	1993	1,831	81.7%	178	7.9%	88	3.9%	106	4.7%	6	0.3%	29	1.3%	2	0.1%	2,240	100.0%
	1998	1,880	78.0%	208	8.6%	126	5.2%	167	6.9%	9	0.4%	19	0.8%	0	0.0%	2,409	100.0%
Community colleges	1993	1,775	86.2%	161	7.8%	56	2.7%	62	3.0%	2	0.1%	3	0.1%	0	0.0%	2,059	100.0%
	1998	1,718	84.9%	162	8.0%	62	3.1%	78	3.9%	2	0.1%	0	0.0%	1	0.0%	2,023	100.0%
Public-mission independent institutions	1993	2,134	88.0%	60	2.5%	56	2.3%	165	6.8%	3	0.1%	7	0.3%	0	0.0%	2,425	100.0%
	1998	2,094	84.4%	79	3.2%	48	1.9%	166	6.7%	3	0.1%	72	2.9%	19	0.8%	2,481	100.0%
Proprietary institutions	1993	70	88.6%	1	1.3%	2	2.5%	6	7.6%	0	0.0%	0	0.0%	0	0.0%	79	100.0%
	1998	102	85.7%	8	6.7%	1	0.8%	8	6.7%	0	0.0%	0	0.0%	0	0.0%	119	100.0%
Theological institutions	1993	43	86.0%	5	10.0%	0	0.0%	2	4.0%	0	0.0%	0	0.0%	0	0.0%	50	100.0%
	1998	59	88.1%	5	7.5%	0	0.0%	3	4.5%	0	0.0%	0	0.0%	0	0.0%	67	100.0%
TOTAL	**1993**	**9,176**	**83.6%**	**601**	**5.5%**	**280**	**2.6%**	**702**	**6.4%**	**15**	**0.1%**	**199**	**1.8%**	**2**	**0.0%**	**10,975**	**100.0%**
	1998	**9,133**	**80.6%**	**655**	**5.8%**	**328**	**2.9%**	**808**	**7.1%**	**22**	**0.2%**	**366**	**3.2%**	**20**	**0.2%**	**11,332**	**100.0%**

SOURCE: NJ IPEDS Form #32, Full-Time Faculty Profile, Fall 1993 and Fall 1998.

BEST COPY AVAILABLE

B. STUDENT OUTCOMES

1. Graduation Rates[1]

New Jersey's public research universities, which graduate about two-thirds of their full-time students within six years, exceed the rates at NCAA Division I[2] public institutions by more than 10 percentage points (Table 8). The state colleges and universities in the state, with graduation rates of about one-half, surpass the Division II[3] public institutions and are about equal to the Division III[4] publics. The NCAA institutional rates are highly credible because they (like the Student Right-to-Know rates) are taken directly from the IPEDS Graduation Rate Survey.[5]

Table 8:
Six-Year Graduation Rates for Senior Public Institutions:
NJ Data Compared with National Data

PUBLIC RESEARCH UNIVERSITIES (UMDNJ excluded)			
Cohort	**NJ***	**NCAA-Div. I#**	
1992-98	66.4%	--	
1991-97	65.1%	52%	
STATE COLLEGES/UNIVERSITIES (Edison excluded)			
Cohort	**NJ***	**NCAA-Div. II##**	**NCAA-Div. III##**
1992-98	49.9%	--	--
1991-97	48.5%	40%	50%

* NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
\# National Collegiate Athletic Association, *1998 NCAA Division I Graduation-Rates Report* (Overland Park, KS: NCAA, November 1998), p. 634.
\## National Collegiate Athletic Association, *1998 NCAA Division II and III Graduation-Rates Report* (Overland Park, KS: NCAA, December 1998), pp. 15, 18.

With regard to five-year graduation rates, the state colleges/universities in New Jersey, at slightly over two-fifths, are marginally above the national benchmarks reported by the College Board and by ACT, while the public research universities, at about three-fifths, once again exceed their benchmarks by more than 10 points (Table 9).

Table 9:
Five-Year Graduation Rates (1993-98) for Senior Public Institutions:
NJ Data Compared with National Data

	NJ*	US-ACT#	US-CEEB##
State colleges/universities	42.3%	39.6%	39.8%
Public research universities	59.1%	46.4%	44.4%
Total	**50.3%**	**42.2%**	**41.8%**

* NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system; UMDNJ and Edison are excluded.
\# Compiled from the ACT Institutional Data File, 1999. Data are from one year earlier.
\## The College Board, *Annual Survey of Colleges 1997-98: Summary Statistics and Fall Enrollment* (New York: CEEB, 1998), p. 24. Data are from two years earlier.

BEST COPY AVAILABLE

New Jersey community colleges have a three-year sectorwide graduation rate of about 13%. While the College Board and ACT report higher national three-year community college graduation rates (based on voluntary reporting), the New Jersey figure is closer to what often appears in other states' reports that include community college graduation rates. Improved national benchmarks will soon be available, when data from the IPEDS Graduation Rate Survey (GRS) (based on mandatory reporting) are posted on the Internet.

2. Retention Rates

Both the public research universities and the state colleges/universities in New Jersey are well above the national benchmarks for third-semester retention rates (Table 10). The public research sector is about 10 points higher, and the state college/university sector has an even wider margin of superiority. Both sectors have percentages in the mid-80s range.

Table 10:
Third-Semester Retention Rates for Senior Public Institutions:
NJ Data Compared with National Data

PUBLIC RESEARCH UNIVERSITIES (UMDNJ excluded)			
Cohort	**NJ***	**ACT#**	**CEEB##**
1997-1998	85.8%	76.5%	75.3%
STATE COLLEGES/UNIVERSITIES (Edison excluded)			
Cohort	**NJ***	**ACT#**	**CEEB##**
1997-1998	83.3%	68.9%	69.2%

* NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
\# Compiled from the ACT Institutional Data File, 1999; data are from one year earlier.
\## The College Board, *Annual Survey of Colleges 1997-98: Summary Statistics and Fall Enrollment* (New York: CEEB, 1998), p. 23. Data are from two years earlier.

The state's community college sector rate, at well over one-half, is above the national benchmarks on retention (Table 11). The margin is relatively small.

Table 11:
Third-Semester Retention Rates for Community Colleges:
NJ Data Compared with National Data

Cohort	NJ*	ACT#	CEEB##
1997-1998	57.7%	52.5%	55.2%

* NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
\# Compiled from the ACT Institutional Data File, 1999; data are from one year earlier.
\## The College Board, *Annual Survey of Colleges 1997-98: Summary Statistics and Fall Enrollment* (New York: CEEB, 1998), p. 23. Data are from two years earlier.

BEST COPY AVAILABLE

3. Transfer Rates

For the purposes of this report, transfer students are those who begin at a New Jersey community college and later enroll, with or without an associate degree, at a New Jersey senior institution. The four-year transfer rate for the community college sector in New Jersey, about one-fourth, is slightly above the national benchmark (Table 12). This benchmark, compiled by the Center for the Study of Community Colleges at UCLA, is a particularly solid one, with a standardized methodology that was used by every participating state agency.

Table 12:
Four-Year Transfer Rates* for Community Colleges,
NJ Data Compared With National Data

Cohort	NJ#	US##
1994-1998	25.3%	23.4%

* Includes only students with 12 or more credits.
\# NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
\## Center for the Study of Community Colleges, Los Angeles, CA. Data refer to 1993-1997 time frame.

C. FISCAL INDICATORS

1. Research Funding

During the 10 years between 1987 and 1997, New Jersey institutions of higher education collectively increased their research funding by well over one-fourth (Table 13). This increase is largely accounted for by the institutions that were receiving most of the research funding at the beginning of the period in question. They include three public institutions—New Jersey Institute of Technology (NJIT), Rutgers University, and University of Medicine and Dentistry of New Jersey (UMDNJ)—and one independent institution—Princeton University.[6]

Table 13:
Research Expenditures by Selected NJ Institutions and Sectors
in Constant 1997 Dollars *

	FY 1987	FY 1997	Absolute Change	Percent Change
NJIT	$17,488,800	$31,571,000	$14,082,200	80.5%
Rutgers	$107,618,648	$128,924,000	$21,305,352	19.8%
UMDNJ	$41,501,459	$81,260,000	$39,758,541	95.8%
All Public Institutions	**$169,360,469**	**$246,551,023**	**$77,190,554**	**45.6%**
Princeton	$97,945,955	$110,034,000	$12,088,045	12.3%
Stevens	$11,767,398	$7,677,572	$(4,089,826)	-34.8%
All Independent Institutions	**$119,106,435**	**$122,586,234**	**$3,479,799**	**2.9%**
Total system	**$288,466,904**	**$369,137,257**	**$80,670,353**	**28.0%**

* Data are from IPEDS. Adjustment for inflation is according to HEPI (Research & Development subindex).

BEST COPY AVAILABLE

In 1987, 1992, and 1997, New Jersey research institutions' total funding in dollars per capita was below the nation and each of four peer states—New York, Pennsylvania, North Carolina, and Virginia (Table 14). Between 1987 and 1992, the Garden State grew more than the nation and all of the peers. However, between 1992 and 1997, New Jersey grew less than the nation and all but one of the peers (Virginia, which declined).

Table 14:
Total Research Funding in FY 1987, FY 1992, and FY 1997, Expressed in Constant 1997 Dollars per Capita, for NJ, the US, and Four Other States
All Research Institutions, Public and Private

	NJ	US	NY	PA	NC	VA
1987	$42	$73	$94	$76	$73	$52
1992	$57	$86	$99	$95	$98	$69
1997	$57	$90	$101	$104	$109	$68
Change (87-92)						
Absolute ($)	**$15**	**$13**	**$4**	**$19**	**$25**	**$17**
Relative (%)	**36.2%**	**18.4%**	**4.7%**	**25.1%**	**33.7%**	**32.5%**
Change (92-97)						
Absolute ($)	**$1**	**$3**	**$2**	**$8**	**$11**	**($1)**
Relative (%)	**1.0%**	**3.5%**	**2.5%**	**8.8%**	**11.1%**	**-1.2%**

SOURCES: National Science Foundation, WebCASPAR Database System. US Bureau of the Census, Population Estimates Branch, 12/30/98 (1992, 1997 pop. est.). US Bureau of the Census, *Current Population Reports*, series P-25, No. 1044 (1988 pop. est.).

Note 1: Adjustment for inflation is according to HEPI (Research & Development subindex).
Note 2: NJ institutions with R&D expenditures are as follows:
1987 - FDU, Montclair, NJIT, Princeton, Rutgers, Seton Hall, Stevens, UMDNJ, and William Paterson;
1992 - FDU, Monmouth, Montclair, NJIT, Princeton, Rutgers, Seton Hall, Stevens, UMDNJ, and William Paterson;
1997 - Drew, FDU, Monmouth, NJIT, Princeton, Rutgers, Seton Hall, Stevens, and UMDNJ.

BEST COPY AVAILABLE

2. Tuition and Fees

Between 1993 and 1998, tuition and fees at New Jersey's three public research universities continued to be higher in dollar terms than those of their respective national peers (Table 15). In percentage terms, NJIT and UMDNJ remained significantly more expensive than their peers, but to a lesser degree than earlier. By contrast, Rutgers, which had been somewhat more expensive, increased its gap slightly.

Table 15:
Average Undergraduate* Tuition and Required Fees for Various Types of Institutions in NJ and the US

		NJ Unadjusted	NJ Adjusted	US	$ Difference	% Difference
Rutgers	FY 1993	$3,923	$3,269	$2,808	$461	16.4%
	FY 1998	$5,242	$4,531	$3,827	$704	18.4%
NJIT	FY 1993	$4,524	$3,431	$1,875	$1,556	83.0%
	FY 1998	$5,802	$4,592	$2,816	$1,776	63.1%
UMDNJ*	FY 1993	$12,245	$10,704	$7,295	$3,409	46.7%
	FY 1998	$15,827	$14,333	$10,657	$3,677	34.5%
Four-year public nondoctoral**	FY 1993	$2,872	$2,393	$2,286	$107	4.7%
	FY 1998	$4,142	$3,580	$3,050	$530	17.4%
Two-year public	FY 1993	$1,485	$1,238	$1,077	$161	14.9%
	FY 1998	$2,020	$1,746	$1,372	$374	27.3%
Independent doctoral	FY 1993	$14,382	$11,985	$11,077	$908	8.2%
	FY 1998	$18,283	$15,802	$13,131	$2,671	20.3%
Independent nondoctoral	FY 1993	$9,355	$7,796	$8,908	-$1,112	-12.5%
	FY 1998	$12,272	$10,607	$11,629	-$1,022	-8.8%

SOURCE: NJ data were adjusted for cost of living. The COLI (Cost of Living Index) was obtained from AFT Interstate COLI 1993 and 1997.

* For UMDNJ, in-state tuition and required fees for the medical degree (M.D.) are reported. UMDNJ's School of Health Related Professions, which offers undergraduate programs, has a tuition schedule that is not comparable to those for peer institutions.

** Edison is excluded.

Both the state colleges and universities and the community colleges in this state were more expensive in 1993 than their peers, and these differences intensified during the next five years. A similar pattern can be seen for the independent doctoral institutions, but the independent nondoctoral institutions were less costly than their peers in 1993, and remained so, though to a somewhat reduced extent. (Owing to an increase in state funding that began in FY 1999, tuition at the community colleges was frozen in that year. Average community college tuition in FY 2000 increased less than the cost of living.) Tuition and fees must be viewed in the context of state support and financial aid. New Jersey is a leader in assisting students, as discussed in Sections II.C.5 and II.D.

BEST COPY AVAILABLE

3. State/Local Government Support for Higher Education

Table 16 benchmarks New Jersey against the nation on state government spending per FTE student in public higher education for FY 1993 and FY 1998.[7] New Jersey was well above the nation in both years, though less so in the more recent one. It should be pointed out that (a) New Jersey state government also spends significant amounts of money on independent institutions and their students, and (b) the county governments provide a significant portion of the funding for community colleges (see Tables 19a-19e below).

Table 16:
State Government Expenditures on Public Higher Education per Public FTE
NJ vs. the US (US = 100) in Two Fiscal Years

FY 1993		FY 1998	
NJ	**US**	**NJ**	**US**
121	100	115	100

SOURCE: Calculated from data in Kent Halstead, *State Profiles: Financing Public Higher Education, 1998 Rankings* (Washington, D.C.: Research Associates of Washington, September 1998), Table 3, p. 32.

In proportional terms, public higher education revenues in New Jersey are somewhat more reliant on state and local government spending than is typical throughout the nation (Table 17). In fact, during the five years between 1991 and 1996 this reliance grew slightly.

Table 17:
State and Local Government Expenditures as a
Percentage of Public Higher Education Revenues
NJ vs. the US in Two Fiscal Years

FY 1991		FY 1996	
NJ	**US**	**NJ**	**US**
106	100	108	100

SOURCE: Calculated from data in National Center for Education Statistics, *Digest of Education Statistics: 1993*, Table 322, p. 326 and *1998*, Table 331, p. 355.

4. Costs and Revenues

In Tables 18a-18c and the following series of tables, each of the public research institutions in New Jersey has a custom-tailored set of peers that they selected in consultation with the Commission. All three institutions are spending considerably less than their peers. Moreover, to varying degrees all three institutions were further below their peers in FY 1997 than in FY 1995.

BEST COPY AVAILABLE

Table 18a:
Total Unrestricted Educational & General Expenditures per Headcount Student
by Four-Year Public Doctoral Institutions
Rutgers University vs. All Other AAU Public Universities

Fiscal Year	AAU	RU-Unadjusted	RU-Adjusted	(RU-Adjusted - AAU)	% Diff.
FY 1995	$14,698	$12,952	$12,055	-$2,643	-18.0%
FY 1997	$15,813	$13,711	$12,761	-$3,052	-19.3%

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

Table 18b:
Total Unrestricted Educational & General Expenditures per Headcount Student
Four-Year Public Doctoral Institutions
NJIT vs. Selected Peers

Fiscal Year	Peers	NJIT-Unadjusted	NJIT-Adjusted	(NJIT-Adjusted - Peers)	% Diff.
FY 1995	$13,309	$12,831	$11,158	-$2,151	-16.2%
FY 1997	$14,814	$13,349	$11,608	-$3,206	-21.6%

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

Table 18c:
Total Unrestricted Educational & General Expenditures per Headcount Student
Four-Year Public Doctoral Institutions
UMDNJ vs. Selected Peers

Fiscal Year	Peers	UMDNJ-Unadjusted	UMDNJ-Adjusted	(UMDNJ-Adjusted - Peers)	% Diff.
FY 1995	$67,917	$57,870	$55,422	-$12,495	-18.4%
FY 1997	$73,866	$53,473	$51,211	-$22,655	-30.7%

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

During the same two-year period, the New Jersey state colleges/universities continued spending more than their peers but to a lesser extent (Table 18d). (The peers consist of all four-year public nondoctoral institutions in the United States as defined by IPEDS.) The community colleges in the state shifted from being above their peers to being further above them (Table 18e). It is important to understand that what happened with regard to these two sectors is in part a function of their enrollment rather than simply dollars spent. While the state colleges/universities had proportionally larger enrollment increases than their counterparts across the nation, the community colleges in the state, but not their counterparts across the nation, had enrollment declines.

Because enrollment measures are in the denominators of the expenditure ratios, the state college/university sector ratio shrank relative to the U.S., while the community

BEST COPY AVAILABLE

college ratio expanded. During the period in question, expenditures at New Jersey state colleges/universities increased by 9.4% as compared with 9.9% nationally, while expenditures at New Jersey community colleges increased by 6.7% as compared with 3.1% nationally. By contrast, New Jersey state college/university student FTEs increased by 2.1% as compared with 0.2% nationally, while New Jersey community college credit FTEs dropped 4.2% as compared with 0.0% nationally.

The Commission intends to explore more fully the use of peer states, rather than the total U.S., especially for the community colleges. These states would be selected on the basis of such variables as per capita income, unionization, and demographics.

Table 18d:
Total Unrestricted Educational & General Expenditures per Student FTE* by Four-Year Public Nondoctoral Institutions for Two Fiscal Years
NJ vs. the US

Fiscal Year	US	NJ-Unadjusted	NJ-Adjusted	(NJ-Adjusted - US)	% Diff.
FY 1995	$7,664	$9,392	$8,680	$1,016	13.3%
FY 1997	$8,407	$10,062	$9,300	$892	10.6%

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.
* Student FTE is calculated in a different manner from credit FTE as used in Table 18e.

Table 18e:
Total Unrestricted Educational & General Expenditures per Credit FTE* by Two-Year Public Institutions for Two Fiscal Years
NJ vs. the US

Fiscal Year	US	NJ-Unadjusted	NJ-Adjusted	(NJ-Adjusted - US)	% Diff.
FY 1995	$3,906	$4,818	$4,453	$547	14.0%
FY 1997	$4,026	$5,365	$4,958	$932	23.1%

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.
* Credit FTE is calculated in a different manner from student FTE as used in Table 18d.

BEST COPY AVAILABLE

Both Rutgers and its peers relied more heavily on tuition and fees in FY 1997 than in FY 1995 (Table 19a), but Rutgers changed more, going from a smaller share than its peers to an equivalent share. NJIT and its peers both moved toward an expanded role for tuition/fees (Table 19b). NJIT's share went from being about 10 points higher to a margin of about 12 points. While UMDNJ expanded its tuition/fee share, its peers remained about the same (Table 19c).

Table 19a:
Sources of Unrestricted Revenues for Four-Year Public Doctoral Institutions for Two Fiscal Years
Rutgers University vs. All Other AAU Public Universities

	FY 1995		FY 1997	
	AAU	RU	AAU	RU
Tuition and fees	34.7%	32.7%	35.5%	35.3%
State government	51.7%	58.7%	50.2%	56.2%
Other	13.7%	8.7%	14.3%	8.5%
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

Table 19b:
Sources of Unrestricted Revenues for Four-Year Public Doctoral Institutions for Two Fiscal Years
NJIT vs. Selected Peers

	FY 1995		FY 1997	
	Peers	NJIT	Peers	NJIT
Tuition and fees	24.9%	35.2%	27.1%	39.2%
State government	62.2%	59.5%	60.2%	55.1%
Other	12.9%	5.4%	12.8%	5.7%
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

Table 19c:
Sources of Unrestricted Revenues for Four-Year Public Doctoral Institutions for Two Fiscal Years
UMDNJ vs. Selected Peers

	FY 1995		FY 1997	
	Peers	UMDNJ	Peers	UMDNJ
Tuition and fees	11.1%	12.2%	10.9%	15.4%
State government	64.6%	81.2%	61.4%	77.4%
Other	24.3%	6.6%	27.7%	7.2%
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

BEST COPY AVAILABLE

Both the state colleges/universities and their peers (defined in the discussion of Table 18d) increased their dependence on tuition and fees (Table 19d) as the state share of revenues declined. The New Jersey shifts were greater. The community colleges and their peers boosted their reliance on tuition/fees to roughly the same small extent (Table 19e).

Table 19d:
Sources of Unrestricted Revenues for Four-Year Public Nondoctoral Institutions for Two Fiscal Years
NJ vs. the US

	FY 1995		FY 1997	
	US	NJ	US	NJ
Tuition and fees	36.7%	33.9%	38.3%	37.2%
State government	59.1%	63.3%	57.1%	59.1%
Other	4.2%	2.8%	4.6%	3.7%
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

Table 19e:
Sources of Unrestricted Revenues for Two-Year Public Institutions for Two Fiscal Years
NJ vs. the US

	FY 1995		FY 1997	
	US	NJ	US	NJ
Tuition and fees	26.3%	41.6%	27.7%	43.3%
State government	47.0%	20.7%	47.6%	20.4%
Other	26.8%	37.7%	24.7%	36.4%
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

SOURCE: NCES, IPEDS, Finance Survey, FY 1995 and FY 1997.

The state's proportional contribution toward overall institutional revenues declined for each of the public research universities as well as for their peers. The same may be said of the state colleges/universities and their peers. However, the state's relative funding role stayed about the same for both New Jersey and U.S. community colleges.

5. Student Assistance Programs[8]

New Jersey is maintaining its commitment to need-based financial aid while expanding its merit-based efforts, particularly in the form of the Outstanding Scholars Recruitment Program (OSRP). In terms of need-based aid, the state ranks first in the percentage of undergraduates receiving such aid, second in the number of need-based dollars per student, and sixth in financial aid as a percentage of total state higher education funding.[9]

BEST COPY AVAILABLE

Table 20a presents data by sector and systemwide on each of New Jersey's specific financial aid programs: Tuition Aid Grants (TAG) and the Educational Opportunity Fund (EOF), which are need-based; two merit programs; and the state loan program (NJCLASS). Over one-third of the full-time undergraduates systemwide receive TAG, ranging from over one-fourth at community colleges to over one-half at independent institutions. EOF has a significant presence in every sector, as do the merit-based programs in the baccalaureate sectors. Table 20b presents data by sector and systemwide on specific federal financial aid programs, and Table 20c does the same for institutional aid.

Table 20a:
Student Aid From the State for Full-Time Undergraduates (FTUs)
at NJ Institutions of Higher Education:
by Aid Source, Systemwide and by Sector

	TAG*	EOF*	Merit Awards*	NJCLASS Loans**	OSRP***
Public Research Universities:					
No.	12,389	3,060	2,848	472	1,336
Pct. of FTUs	36.8%	9.1%	8.4%	1.4%	8.8%
$(000)	$38,196	$2,883	$3,311	$2,596	$3,591
Avg. Award	$3,083	$942	$1,163	$5,500	$2,687
State Colleges/Universities:					
No.	14,925	4,005	2,642	552	785
Pct. of FTUs	33.0%	8.9%	5.8%	1.2%	3.7%
$(000)	$28,634	$3,594	$2,342	$2,724	$2,055
Avg. Award	$1,919	$897	$886	$4,935	$2,616
Community Colleges:					
No.	17,546	4,448	121	43	--
Pct. of FTUs	26.6%	6.8%	0.2%	0.1%	--
$(000)	$21,076	$2,735	$101	$156	--
Avg. Award	$1,201	$615	$831	$3,630	--
Public-Mission Independents:					
No.	12,544	1,991	1,781	1,934	111
Pct. of FTUs	53.9%	8.6%	7.7%	8.3%	0.8%
$(000)	$53,043	$3,828	$3,311	$15,268	$182
Avg. Award	$4,229	$1,923	$1,859	$7,894	$1,638
System Total:					
No.	**57,404**	**13,504**	**7,392**	**3,001**	**2,233**
Pct. of FTUs	**34.2%**	**8.0%**	**4.4%**	**1.8%**	**4.5%**
$(000)	**$140,949**	**$13,041**	**$9,064**	**$20,744**	**$5,827**
Avg. Award	**$2,455**	**$966**	**$1,226**	**$6,912**	**$2,610**

* FY 1999.

** FY 1998.

*** Outstanding Scholars Recruitment Program, FY 1999. Only freshmen and sophomores are included among NJ FTUs, since the program had had time to encompass only two waves of freshmen. FTUs are sectorwide, though not all institutions are eligible.

Note 1: All aid recipients and FTUs are restricted to NJ residents.

Note 2: An unduplicated count of FTUs for independent institutions for an academic year was estimated by multiplying the total number of fall 1998 full-time NJ residents with the ratio of FY 1999 TAG unduplicated awards to fall 1998 TAG awards.

BEST COPY AVAILABLE

Table 20b:
Federal Student Aid for Full-Time Undergraduates (FTUs) at NJ Institutions of Higher Education: by Aid Source, Systemwide and by Sector

	Pell*	Work Study*	Perkins*	SEOG*	Stafford Subsdzd*	Stafford Unsubsd*	PLUS*
Public Research Universities:							
No.	10,604	3,744	2,175	3,063	15,485	7,625	997
Pct. of FTUs	31.5%	11.2%	6.5%	9.1%	45.9%	22.6%	3.0%
$(000)	$19,797	$5,403	$2,869	$2,374	$52,061	$24,558	$6,030
Avg. Award	$1,867	$1,432	$1,319	$775	$3,362	$3,221	$6,048
State Colleges/Universities:							
No.	13,835	2,865	1,414	4,714	19,621	11,912	2,027
Pct. of FTUs	30.6%	6.3%	3.1%	10.4%	43.4%	26.3%	4.5%
$(000)	$24,896	$2,619	$2,063	$2,202	$58,577	$35,587	$8,968
Avg. Award	$1,799	$914	$1,459	$$467	$2,985	$2,987	$4,424
Community Colleges:							
No.	28,490	1,982	9	7,816	5,961	4,129	153
Pct. of FTUs	43.3%	3.0%	0.0%	11.9%	9.1%	6.3%	0.2%
$(000)	$43,365	$2,903	$9	$2,376	$11,187	$8,514	$466
Avg. Award	$1,522	$1,465	$1,000	$304	$1,877	$2,062	$3,046
Public-Mission Independents:							
No.	8,735	5,922	5,816	5,127	14,849	5,545	1,943
Pct. of FTUs	37.5%	25.5%	25.0%	22.0%	63.8%	23.8%	8.4%
$(000)	$15,821	$6,111	$8,405	$5,276	$53,986	$20,608	$15,494
Avg. Award	$1,811	$1,032	$1,383	$1,029	$3,636	$3,717	$7,974
System Total:							
No.	**61,664**	**14,543**	**9,414**	**20,720**	**55,916**	**29,211**	**5,120**
Pct. of FTUs	**36.7%**	**8.7%**	**5.6%**	**12.3%**	**33.3%**	**17.4%**	**3.0%**
$(000)	**$103,879**	**$17,036**	**$12,986**	**$12,228**	**$175,811**	**$89,267**	**$30,958**
Avg. Award	**$1,685**	**$1,171**	**$1,379**	**$590**	**$3,144**	**$3,056**	**$6,046**

* FY 1998.
Note: All aid recipients and FTUs are restricted to NJ residents.

BEST COPY AVAILABLE

Table 20c:
Institutional Student Aid for Full-Time Undergraduates (FTUs) at NJ Institutions of Higher Education: by Aid Source, Systemwide and by Sector*

	Grants & Scholarships	Loans	Total
Public Research Universities:			
No.	12,320	35	12,355
Pct. of FTUs	36.5%	0.1%	36.7%
$(000)	$25,225	$90	$25,315
Avg. Award	$2,047	$2,571	$2,049
State Colleges/Universities:			
No.	6,913	--	6,913
Pct. of FTUs	15.3%	--	15.3%
$(000)	$10,863	--	$10,863
Avg. Award	$1,571	--	$1,571
Community Colleges:			
No.	2,771	--	2,771
Pct. of FTUs	4.2%	--	4.2%
$(000)	$3,443	--	$3,443
Avg. Award	$1,243	--	$1,243
Public-Mission Independents:			
No.	20,870	636	21,506
Pct. of FTUs	89.7%	2.7%	92.4%
$(000)	$112,297	$1,181	$113,478
Avg. Award	$5,381	$1,857	$5,277
System Total:			
No.	**42,874**	**671**	**43,545**
Pct. of FTUs	**25.5%**	**0.4%**	**25.9%**
$(000)	**$151,828**	**$1,271**	**$153,099**
Avg. Award	**$3,541**	**$1,894**	**$3,516**

* FY 1998.
Note: All aid recipients and FTUs are restricted to NJ residents.

D. THE EXTENT OF STUDENT ASSISTANCE

Section II.D uses a new source of financial aid information.[10] The new data, which focus on full-time first-time undergraduates, deal with types of aid (i.e., federal grants, state/local grants, institutional grants, loans) rather than individual programs, such as those presented in Section II.C.5. They include for the first time the percentage of students receiving any type of aid. Since the new data are part of a national data system, it will be possible eventually to use them to benchmark New Jersey against the nation and other states.

The data in this section are separated according to three sectors: senior public institutions, community colleges, and independent institutions. The senior public sector

30 BEST COPY AVAILABLE

excludes Thomas Edison State College and the University of Medicine and Dentistry of New Jersey. However, it treats the three campuses of Rutgers University—New Brunswick, Newark, and Camden—as separate entities, in order to avoid the misleading impressions that would result from ignoring important differences among them with regard to financial aid.

1. The Median Extent of Assistance for Each Sector

Table 21 presents the percentage of students receiving any aid or a specific type of aid at the median institution in each sector. The "median" institution is the one in the middle when institutions are listed in ascending or descending order based on percentage of students. This measure is presented instead of the mean because the distributions of institutions within sectors are skewed.

Table 21:
Median* Percentage of Full-Time First-Time Degree-Seeking Undergraduates at NJ Institutions of Higher Education Receiving Any Financial Aid or a Specific Type of Aid, by Sector

	Senior Public Institutions	Community Colleges	Independent Institutions
Any aid	71	47	92
Federal grants	33	33	33
State/local grants	41	29	41
Institutional grants	28	2	84
Loans	49	10	60

* "Median" refers to the middle institution within a given sector.

The percentage of students receiving any type of aid at the median institution is highest at New Jersey's independent institutions, which have the highest tuition and fees, but it is still almost 50% at the community colleges, which have the lowest tuition and fees.

The median percentage of students receiving federal grants is one-third in each sector. The percentage receiving state grants (about 40%) is the same for the senior publics' and independents' median institutions, and lower at the community colleges. Institutional grants are more prevalent (over 80%) in the independent sector than in the others. Finally, while loans are most prevalent in the independent sector (60%), the senior public institutions are only about 10 percentage points lower, followed by the community colleges. The amounts of the loans and the levels of indebtedness are not reflected in these figures.

2. The Range of Institutions within Each Sector

Table 22 presents the ranges between the lowest and highest institutions with regard to the percentages of students receiving any type of aid or a specific type of aid. Looking at students who receive any type of aid, the range among the senior publics is from 53% to 85%; the highest percentages seem to be a function of relatively high tuition in some cases and relatively low family incomes in others. The community college range is much greater, 18% to 75%. While most of the community colleges with the highest percentages have relatively low-income students, it is interesting to note that these institutions are as likely to be rural as they are to be urban. Among the independents the range is from 43% to 98%. Low incomes are clearly a factor in at least some of the high-percentage independent institutions. Among the independents, high tuition does not necessarily lead to a high incidence of financial aid.

Table 22:
Range* of Institutions in the Percentage of Full-Time First-Time Degree-Seeking Undergraduates at NJ Institutions of Higher Education Receiving Any Financial Aid or a Specific Type of Aid, by Sector

	Senior Public Institutions	Community Colleges	Independent Institutions
Any aid	53-85	18-75	43-98
Federal grants	18-53	14-70	11-71
State/local grants	19-58	12-60	17-77
Institutional grants	7-48	1-16	41-98
Loans	36-54	1-45	36-73

* "Range" refers to the lowest and highest institution within a given sector.

Turning to the four specific types of aid, the range among the senior public institutions is about 35-40 points on each type of grant, but only about half as much on loans. Among the community colleges the range is about 45-55 points on all types of aid except institutional grants, where it is only 15 points. Finally, among the independents the range is about 55-60 points on all types of aid except loans, where it is 37.

The fact that a need-based program, Pell Grants, dominates the federal grants helps explain why institutions with relatively more low-income students tend to have high percentages receiving federal grants. In New Jersey, state need-based aid also predominates (over merit-based aid), and consequently, a similar pattern obtains. In the case of institutional grants, the resources of the institution seem to come into play among the senior publics (though there are clearly other factors as well), but that seems to be less true among the independents. The fact that the incidence of loans does not vary dramatically among the senior publics may explain the apparent absence of clear relationships with other factors. Among the independents it appears to be the institutions with predominantly middle-income students that have the greatest incidence of loans.

3. Conclusions

The data presented in Section II.D demonstrate four important points:

(1) The overall extent of financial need in New Jersey can be summed up by the fact that more than one-half of the students at more than one-half of the colleges and universities receive aid of some kind. This point reinforces the importance of maintaining a sound financial aid system, encompassing state government, the federal government, and (at least in the case of the independent sector) the institutions. Also, we are reminded once again of the critical importance of holding tuition increases to a minimum.

(2) While there are enormous differences within sectors, with a few notable exceptions the differences among sectors are not great. The independent institutions stand out on the high side with regard to institutional grants, while the community colleges stand out on the low side with regard to this type of aid, as well as loans. Otherwise the similarities among the sectors tend to outweigh the differences.

(3) Three-fifths of the students (or families) at the median independent institution take out loans, as do one-half of the students at the median senior public institution.

(4) More students (or families) at the median senior public institution take out loans than participate in federal, state/local, and institutional grant programs. At the median independent, institutional grants are the only category of grants that exceeds loans.

III. Transfer Students

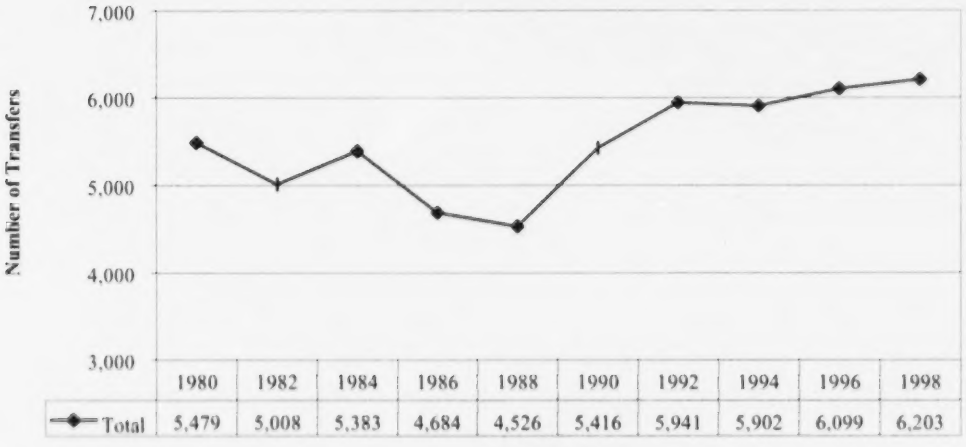
Serious efforts are underway to eliminate barriers to qualified students or graduates from New Jersey community colleges who wish to transfer to a senior institution in this state. Two important examples of such efforts are the principles of agreement among the presidents regarding transfer articulation, as well as the ARTSYS system, a computerized database that Rutgers is piloting with the community colleges. ARTSYS is designed to inform prospective transfer students about academic requirements for specific transfer circumstances. The Commission is working closely with the Presidents' Council to improve the transfer process. Given these developments, now is a propitious time to examine where the New Jersey higher education system has been with regard to numbers of transfer students, the transfer of credits, and the academic performance of transfer students.

Data on transfer flows capture only one of the many issues related to transfer articulation. Two other aspects of greater significance are acceptance of credits in general and allowance of credits toward the major. Yet another issue is whether transfer students can compete successfully with "native" students in terms of quality of academic performance and probability of graduation. The Commission expects that the policy actions mentioned above, along with continuing program-specific discussions among faculty from different institutions, will improve the transfer process. The effect should be a smoother transition and advancement of students' academic careers. Operationally, this should be reflected in a reduced loss of credits and therefore lower expenditures for repeating coursework, as well as an expedited completion of degree programs. A student-centered approach to transfer cannot ignore any of these issues.[11]

A. THE NUMBERS OF TRANSFER STUDENTS

The Commission's data on transfer flows encompass the last 18 years. Figure 1a plots the total number of transfers from New Jersey community colleges to the state's senior institutions during that period. While the 1980s were marked largely by a decline in transfers, the period since 1988 has witnessed significant increases.

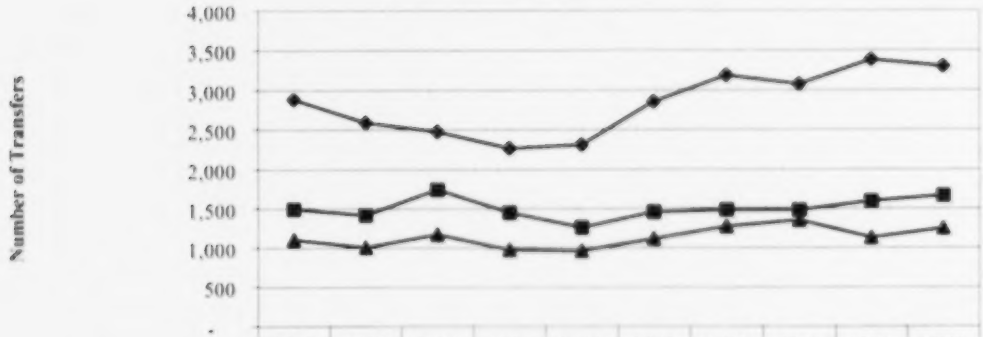
Figure 1a:
Full-Time+Part-Time Undergraduate Transfers
From N.J. Community Colleges,
Fall 1980 through Fall 1998,
Total of All Receiving Sectors



SOURCE: NJ IPEDS Form #27, Undergraduate Transfers Received by Four-Year Colleges.

Figure 1b shows that of the three major baccalaureate sectors, state colleges/ universities have consistently received the most transfer students, public research universities have received fewer, and the independent institutions have consistently received the fewest. Moreover, while transfers to state colleges/universities have followed the overall pattern of increases shown in Figure 1a since 1988, the other two senior sectors have not exhibited any trend during this period. Figure 1b is intended to establish baselines, and should not be used to evaluate the individual receiving sectors.

Figure 1b:
Full-Time+Part-Time Undergraduate Transfers
From N.J. Community Colleges,
Fall 1980 through Fall 1998,
By Receiving Sectors



	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998
State colleges/ universities	2,881	2,586	2,472	2,261	2,306	2,850	3,184	3,070	3,377	3,294
Public research universities	1,494	1,416	1,741	1,448	1,261	1,454	1,485	1,481	1,596	1,664
Public-mission independents	1,104	1,006	1,170	975	959	1,112	1,272	1,351	1,126	1,245

Fall Semesters

SOURCE: NJ IPEDS Form #27, Undergraduate Transfers Received by Four-Year Colleges.

The observable patterns in Figures 1a and 1b cannot be attributed to fluctuations in community college enrollments. Even when one considers these enrollment fluctuations by forming ratios of transfers to such enrollments, the patterns change remarkably little. Part of the reason for this similarity in results may be that enrollment fluctuations at the community colleges, at least in the current decade, have tended to occur among part-time students, who account for only 27% of the transfer students.

Ratios of transfers to enrollments at receiving sectors indicate that during the current decade all three sectors have increased their percentages of new students who are transfers. Over the entire 18-year period the state colleges and universities have consistently been above the average of the three senior sectors, while the independent institutions have consistently been below it. The public universities were above the average during the 1980s, but have fallen below it in the 1990s. Except for a brief period in the mid-1980s, the state colleges and universities have exceeded all other sectors in new transfers relative to enrollments.

B. CREDITS

Using broad estimates, this investigation of academic credits as an outcome of the transfer process addresses two questions: (1) What is the average number of credits lost by transfer students at the time of transfer and throughout their first semester at the receiving institution? (2) At the time of graduation from the senior public institution, do students who entered as transfers have more accumulated credits than do native graduates? Have they taken longer to graduate, as a result of flaws in the transfer process?

According to Commission estimates (explained in Appendix A), transfer students lost an average of 13.7 credits in fall 1998. Graduating transfer and native students have an essentially identical number of accumulated credits on average (the means are 134.3 and 134.6, respectively) (see Appendix B).

The credit estimates presented above can and should be refined for future reports in at least one, if not two, ways. First, there must be an improvement in the quality of the data on credits that the Commission receives. These data are submitted at the beginning of the fall and spring semesters and include credits accumulated up to those points, as well as credits enrolled for in the semester that is just beginning. Second, the Commission currently lacks summer credit data of any kind, as well as end-of-semester credit data for the fall and spring, which would promptly reflect courses dropped or failed during those semesters.

C. THE ACADEMIC PERFORMANCE OF TRANSFER STUDENTS

In the most recent year for which data are available, the average community college transfer student at a state college or university attained (exactly) a "B" average in his/her junior year; this hypothetical student came within two-hundredths of a grade point of equaling the average native junior student (Table 23a). At the public research universities, both the average transfer junior and the average native junior were below a "B" average; the natives were 0.16 points higher, on average, than the transfers (Table 23b). When all senior public institutions are combined, the result is a weighted average of the two sectors just described; both transfers and natives were slightly below a "B" average (the native juniors missed by the slimmest of margins); the difference between them was 0.08 points (Table 23c). Overall, the junior-year grade performance of transfer students was nearly equal to that of native students.[12]

Table 23a:
Junior-Year GPAs of Students Who Transferred from NJ Community Colleges to NJ State Colleges/Universities* vs. Native Juniors

Ranges	Transfers		Natives	
	#	%	#	%
0.0 - 0.9	43	2.3	66	1.9
1.0 - 1.9	69	3.7	164	4.8
2.0 - 2.9	634	34.4	1,022	29.6
3.0 - 4.0	1,095	59.4	2,186	63.4
Unknown	1	0.1	12	0.3
TOTAL	**1,842**	**100.0**	**3,450**	**100.0**
MEAN GPA	**3.00**		**3.02**	

SOURCE: NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
* Excludes Edison.

Table 23b:
Junior-Year GPAs of Students Who Transferred from NJ Community Colleges to NJ Public Research Universities* vs. Native Juniors

Ranges	Transfers		Natives	
	#	%	#	%
0.0 - 0.9	27	2.8	75	1.9
1.0 - 1.9	52	5.5	166	4.1
2.0 - 2.9	388	40.7	1,315	32.5
3.0 - 4.0	484	50.8	2,471	61.1
Unknown	2	0.2	14	0.3
TOTAL	**953**	**100.0**	**4,041**	**100.0**
MEAN GPA	**2.81**		**2.97**	

SOURCE: NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
* Excludes UMDNJ.

Table 23c:
Junior-Year GPAs of Students Who Transferred from NJ Community Colleges to NJ Senior Public Institutions* vs. Native Juniors

Ranges	Transfers		Natives	
	#	%	#	%
0.0 - 0.9	70	2.5	141	1.9
1.0 - 1.9	121	4.3	330	4.4
2.0 - 2.9	1,022	36.6	2,337	31.2
3.0 - 4.0	1,579	56.5	4,657	62.2
Unknown	3	0.1	26	0.3
TOTAL	**2,795**	**100.0**	**7,491**	**100.0**
MEAN GPA	**2.91**		**2.99**	

SOURCE: NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
* Excludes Edison and UMDNJ.

BEST COPY AVAILABLE

At the state colleges and universities, the baccalaureate graduation rates for transfers and natives are similar. How early or late a transfer arrived in his/her academic career is not significantly related to transfers' performance relative to that of natives (Table 24a). At the public research universities the natives have higher graduation rates than the transfers regardless of when the transfers enter, but the gap is smaller when they arrive as freshmen (Table 24b). It may be somewhat misleading to label all of these freshman enrollees from community colleges as "transfers," since some may have earned few credits at their original institution. In any case, the overall graduation rate for transfers is 64% at the public research universities and 70% at the state colleges and universities.

Table 24a:
Six-Year Graduation Rates for Fall 1992 Entering Full-Time Degree-Seeking Transfers from New Jersey Community Colleges and Fall 1992 Full-Time Degree-Seeking Native Freshmen, Sophomores, and Juniors at NJ State Colleges/Universities*

	Number in Cohort	Graduation Rate Six-Year
All Transfers from CC	2,267	70.3%
Native Freshmen	6,455	50.3%
Freshman Transfers from CC	543	52.7%
Native Sophomores	5,901	71.3%
Sophomore Transfers from CC	942	71.4%
Native Juniors	5,353	84.5%
Junior Transfers from CC	745	80.9%

SOURCE: NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
* Excludes Edison

Table 24b:
Six-Year Graduation Rates for Fall 1992 Entering Full-Time Degree-Seeking Transfers from New Jersey Community Colleges and Fall 1992 Full-Time Degree-Seeking Native Freshmen, Sophomores, and Juniors at NJ Public Research Universities*

	Number in Cohort	Graduation Rate Six-Year
All Transfers from CC	1,174	64.1%
Native Freshmen	5,612	66.4%
Freshman Transfers from CC	222	58.6%
Native Sophomores	5,556	78.6%
Sophomore Transfers from CC	473	59.0%
Native Juniors	5,372	88.1%
Junior Transfers from CC	447	72.7%

SOURCE: NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
* Excludes UMDNJ.

BEST COPY AVAILABLE

Table 24c:
Six-Year Graduation Rates for Fall 1992 Entering
Full-Time Degree-Seeking Transfers from New Jersey Community Colleges
and Fall 1992 Full-Time Degree-Seeking Native Freshmen, Sophomores,
and Juniors at All NJ Senior Public Institutions*

	Number in Cohort	Graduation Rate Six-Year
All Transfers from CC	3,441	68.2%
Native Freshmen	12,067	57.8%
Freshman Transfers from CC	765	54.4%
Native Sophomores	11,457	74.8%
Sophomore Transfers from CC	1,415	67.3%
Native Juniors	10,725	86.3%
Junior Transfers from CC	1,192	77.9%

SOURCE: NJ Commission on Higher Education, Student Unit Record Enrollment (SURE) system.
*** Excludes Edison and UMDNJ.**

D. CONCLUSION

The evidence presented here on the fairness and efficiency of the transfer process and its effects is somewhat mixed. More research is needed, particularly on time to completion. As far as the performance of transfer students is concerned, the results are predominantly positive. Finally, there is a need to improve both the quantity and the quality of the raw data on which such analyses are based. However, even with perfect data, some aspects of the transfer process cannot be captured quantitatively. Therefore, first-hand qualitative knowledge and insight will always be important.

BEST COPY AVAILABLE

IV. Closing

The fourth systemwide accountability report does three primary things.

- It provides an update on a wide range of data pertinent to higher education in New Jersey, including some comparisons with peer institutions and practices across the nation.
- It presents new information on the extent of financial aid.
- It examines student transfer data and sets a base on which to monitor improvement.

As an integral part of the framework for higher education accountability in New Jersey, the systemwide report serves as a reference point for members of the higher education community, policy makers, and the general public. It also has the potential to serve as the basis for ongoing discussions and further analyses to inform future planning.

The Commission on Higher Education is committed to enhancing the higher education accountability framework. Building on the information in this report to stimulate discussions and conducting additional analyses throughout the year are one way to do that. Also, ongoing accountability deliberations will encompass the Commission's stated intent to improve both the form and content of the institutional accountability reports and its commitment to annually review and enhance the performance funding indicators. Consultation with the Presidents' Council will be vital to the further development of the accountability framework.

Appendices

APPENDIX A*:

Methodology for Estimating the Number of Credits Lost by a Student Transferring from a Community College to a Senior Public Institution in Fall 1998

Symbols

A_{S98}: accumulated degree credits at the beginning of spring 1998 (CC)

E_{S98}: credits enrolled in spring 1998 (CC)

E_{F98}: credits enrolled in fall 1998 (SP)

A_{S99}: accumulated degree credits at the beginning of spring 1999 (SP)

Formula

$(A_{S98} + E_{S98} + E_{F98}) - A_{S99}$ = credits lost

* This calculation requires the following enrollment data: spring 1998, fall 1998, and spring 1999. Senior public institutions received 4,961 new transfers from community colleges in fall 1998. Of these, 3,292 were enrolled in the sending institution in spring 1998; of these, 2,951 enrolled in the receiving institution in spring 1999. Finally, of the last group, 2,386 had calculated credit change numbers that were zero or positive.

APPENDIX B*:

Methodology for Determining Whether Graduates of a Senior Public Institution Who Had Entered as Transfers Had to Accumulate More Credits than Graduates Who Had Entered as First-Time Students

Focus on 6/98 graduates of senior publics. Sum their spring 98 accumulated degree credits and their spring 98 credits enrolled; call this sum total credits.

Determine which graduates had entered as transfers and which had entered as first-time. For each group, compute and compare their mean total credits.

*There were 10,882 bachelor's degree recipients at senior public institutions in May 1998. Of these, 9,831 were enrolled in spring 1998 and, according to the Commission's calculation formula, had 120 or more credits at the time of graduation. Of the latter graduates, first-time admits constituted 62.1% (6,104); transfer admits, 37.9% (3,727).

Endnotes

[1] The reason that five- or six-year rates are typically used for "four-year institutions" and that three-year rates are almost universally used for "two-year institutions" is that current economic and academic realities (e.g., the frequent need for students to work while attending college and/or to obtain remediation) make the expanded time frames more realistic for all but the most elite institutions.

[2] All Division I institutions award athletically related financial aid; accordingly, they have the most elaborate reporting requirements concerning graduation rates and other student data, including data specifically pertaining to athletes.

[3] Some Division II institutions award no athletically related financial aid. Others award some such aid, but less than the Division I institutions; their reporting requirements are therefore less elaborate than those for Division I, and in fact are the same as those for Division III (see below).

[4] Most Division III institutions do not award any athletically related financial aid and are therefore not required to report specifically on athletes.

[5] The NCAA institutional rates are highly credible because they (like the Student Right-to-Know rates) are taken directly from the IPEDS Graduation Rate Survey (GRS).

[6] Research spending by the Princeton Plasma Physics Laboratory is omitted from Table 13. In current 1997 dollars, spending in this area amounted to $158,527,000 in 1987 and $70,118,000 in 1997. While exclusion of these sums considerably diminishes the total amount of research spending by Princeton (as well as its sector and the system as a whole) in any given year, their inclusion, owing to the decline in funding for Plasma Physics, would create an even more misleading impression, i.e., that overall funding for the three entities mentioned above has declined. On a more positive note, it was recently announced that the U.S. Department of Energy's (federal) FY 2000 grant to Plasma Physics will represent a 21% increase over FY 1999.

[7] Data from Kent Halstead's Research Associates of Washington are being used here (or anywhere) for what may well be the last time. There are no data from this source for FY 1999 (as there would have been at this time in the past), and there may never be again.

[8] The data on student aid programs presented in Tables 20a through 20c are from the following sources: TAG, EOF, and merit awards, computed from the NJ Grants Records System, which is maintained by the Higher Education Student Assistance Authority (HESAA); NJCLASS loans and OSRP (a relatively new merit program), obtained directly from HESAA; federal and institutional aid, from NJ IPEDS Form #41, Student Financial Aid.

[9] National Association of State Student Grant and Aid Programs (NASSGAP), 29th Annual Survey Report: 1997-98 Academic Year (Albany, NY: New York State Higher Education Services Corporation, April 1999), pp. 70-72 (Tables Twelve-Fourteen).

[10] The new source is the new IPEDS form, Institutional Prices and Student Financial Aid (IPSFA), introduced this past summer by the US Department of Education (National Center for Education Statistics).

[11] Section II.B.3 dealt with transfer rates, and the reader may wish to review that discussion. In the present context, however, the focus is exclusively on transfer students—not on how prevalent such students are at the community colleges.

[12] The methodology for this analysis is explained in an annually updated document that is sent to the public institutions each summer in connection with the data that the Commission provides for the institutional accountability reports.

BEST COPY AVAILABLE